91-03555/

Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO
GDIF 546
TELFER TOWNSHIP

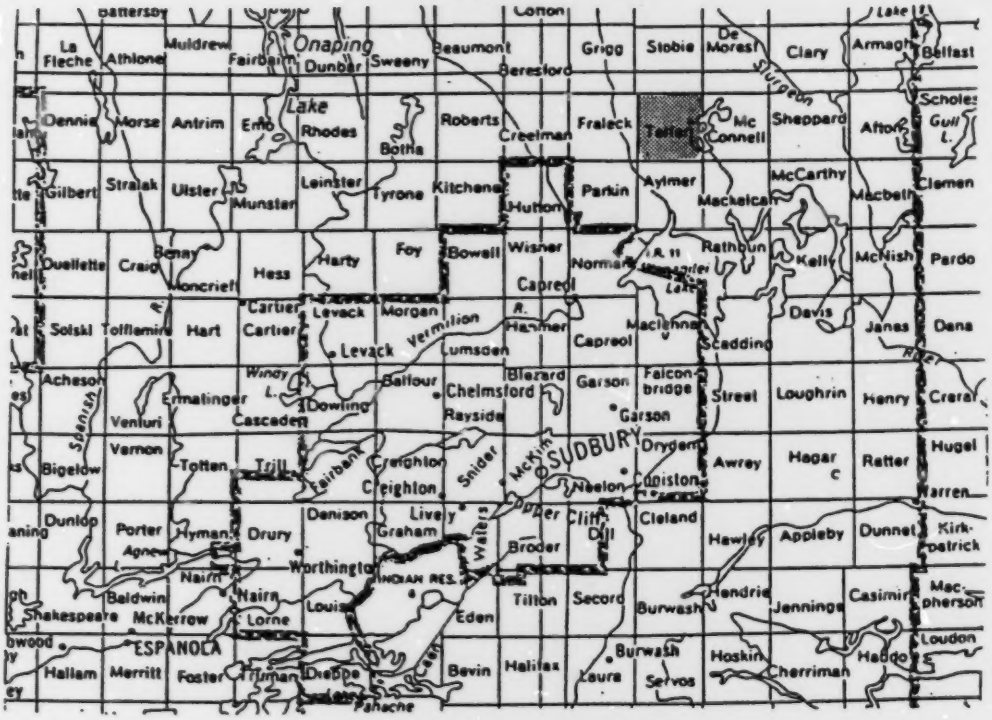
Sudbury Mining Division

41 I/15

Compiled by the staff of

the Resident Geologist's Office

SUDBURY



LOCATION MAP

CANADA ONTARIO Mineral Development Exploitation Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

Mining Claim Map Number G 4111

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA).

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1991. Telfer Township, Geological Data Inventory Folio 546; compiled by the staff of the Resident Geologist's office, Sudbury.

Original Compilation by: Jerome, Lucille, June 1989

Date	Page(s) Revised	Revised by
*		

Date	Page(s) Revised	Revised by

TABLE OF CONTENTS

Data Sources Checklist 1

Mineral Commodities Reference List 2

Mineral Occurrences ..... 3 - 1

Type of Work ..... 4 - 1

Drillhole Summary ..... 5 - 1

Airborne Geophysical Survey Data ..... 6 - 1

Geochemical Survey Data ..... 7 - 1

Geochronology Data ..... 8 - 1

Air Photographs, Mosaics, Imagery ..... 9 - 1

Topographic Maps ..... 10 -

Newspaper Clippings File ..... 11 -

OGS/ODM General Index Search ..... 12 -

Selected References ..... 13 - 1,2. . .3

Notes ..... 14 - 1

Addenda ..... 15 - 1,2

ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	OGS/ODM General Index	YES	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	NO	L.J.
6	ODM Industrial Mineral Reports	NO	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	N.A.	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	L.J.
9	Newspaper Clippings File	YES	L.J.
10	GSC Index to Publications	NO	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	L.J.
12	OGS Index Maps	YES	L.J.
13	Source Mineral Deposit Records (OGS)	NO	L.J.
14	Author - Subject Articles File	YES	L.J.
15	ODM/OGS Miscellaneous Papers	YES	L.J.
16	ODM Geological Circulars	NO	L.J.
17	OGS Study Series	NO	L.J.
18	ODM Preliminary Reports	NO	L.J.
19	ODM Bulletins	NO	L.J.
20	ODM/OGS Open File Reports	YES	L.J.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	YES	L.J.
22	OGS Aggregate Resources Inventory Papers	NO	L.J.
23	OGS Mineral Potential Maps	YES	L.J.
24	Drill Core Library Catalogue	N.A.	L.J.
25	Theses on File, Sudbury	YES	L.J.

*

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite
ank ..... Ankerite
ap ..... Apatite
arg ..... Argentite
As ..... Arsenic
asp ..... Arsenopyrite
asb ..... Asbestos
ba ..... Barite
be ..... Beryl
Bi ..... Bismuth
bn ..... Bornite
Cd ..... Cadmium
calc ..... Calcite
carb ..... Carbonate
cc ..... Chalcocite
cp ..... Chalcopyrite
ch ..... Chert
clay ..... Clay
Co ..... Cobalt
cob ..... Cobaltite
Cu ..... Copper
cor ..... Corundum
dol ..... Dolomite
ep ..... Epidote
fel ..... Feldspar
fl ..... Fluorite (flurospar)
fu. ..... Fuchsite
gn. ..... Galena
gt. ..... Garnet
goe ..... Goethite
Au ..... Gold
gf ..... Graphite

gl ..... Gravel
gyp ..... Gypsum
hem ..... Hematite
Fe ..... Iron
IF ..... Iron Formation
jas ..... Jasper
ky ..... Kyanite
Pb ..... Lead
lim ..... Limonite
Li ..... Lithium
mgst ..... Magnesite
mag ..... Magnetite
mc ..... Malachite
Mn ..... Manganese
mb ..... Marble
mar ..... Marcasite
ma ..... Marl
mi ..... Mica
mo ..... Molybdenite
Mo ..... Molybdenum
mon ..... Monazite
ne .... Nephelite (nepheline)
Ni ..... Nickel
Nb ..... Niobium
Pd ..... Palladium
pent ..... Pentlandite
Pt ..... Platinum
py ..... Pyrite
pyl ..... Pyrochlore
po ..... Pyrrhotite
q ..... Quartz
qcv .. Quartz carbonate vein

ra ..... Radioactive minerals
RE ..... Rare Earths
sd ..... Sand
sgl ..... Sand and gravel
ss ..... Sandstone
scap ..... Scapolite
shee ..... Scheelite
serp ..... Serpentine
sh ..... Shale
sid ..... Siderite
si ..... Silica
Ag ..... Silver
sl ..... Slate
sm ..... Smaltite
sod ..... Sodalite
spec ..... Specularite
sp ..... Sphalerite
spd ..... Spodumene
s ..... Sulphides
talc ..... Talc
Te ..... Tellurium
th ..... Thorite
Th ..... Thorium
ti ..... Titanite
Ti ..... Titanium
tour ..... Tourmaline
W ..... Tungsten
uran ..... Uraninite
U ..... Uranium
verm ..... Vermiculite
Zn ..... Zinc
zr ..... Zircon

ADDITIONS

*

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Minerali-zation			

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity	Other Data	or footnotes
1	Ateba Mines Inc. (McConnell 0012)									81	81	81								
2	Ateba Mines Ltd., Canadian Occidental Petroleum (Aylmer 0013-A1)									81	81									
3	Ateba Mines Ltd. (Aylmer 0017)	81																		
4	Canadian Nickel Co. Ltd. (Clary 0011)	79			79															
5	Canadian Nickel Co. Ltd. (McConnell 0010)	81																		

SEE PAGE 13-1,...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
1	Canadian Nickel Co. Ltd. (Clary 0011)	54060	1980	360	90	4.3m	1625m	po, py, cp	

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
1	1981: Kenting Earth Sciences Ltd. for Ateba Mines Inc.	a. Magnetometer, b. VLF electromagnetometer, c. Spectrometer	150' - 200'	N/S, E/W	1320'
2	1981: Kenting Earth Sciences Ltd. for Canadian Occidental Petroleum Ltd.	a. Magnetometer, b. VLF electromagnetometer	150' - 200'	N/S, E/W	1320'

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		

Map Site No.	GEOCHRONOLOGY DATA - AGE DATING			
	Method	Material	Reference	Result

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist Office

(a) Aerial Photographs

Year	Roll	Line	Number
1977	11	4640	13-20
	79	4639	165-172
	79	4638	198-205
	79	4637	222-230

(b) Photomosaics

(c) Satellite Imagery

TOPOGRAPHIC MAPS (selected)

Scale	Year	Name and/or Number	By
1: 50,000	1975	Milnet Sheet, 41 I/15	EMR
1: 100,000	1978	NOEGTS Data Base Map, Capreol, Map 5001, NOEGT Study 95	OGS, Gartner, J. F.

NEWSPAPER CLIPPINGS FILE

PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	06/18/81		Ateba picks up two gold options in N. Ontario
Northern Miner	04/14/83		Ateba Mines retains three claim groups

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

ATEBA MINES LTD.
CANADIAN NICKEL CO. LTD.
CANADIAN OCCIDENTAL
PETROLEUM LTD.
TELFER TOWNSHIP

Index Volume	Listing:	Report Volume	Part	Page
3	Canadian Nickel Co. Ltd. Incorporated	46	1	59
9	Telfer, Demorest & McConnell Tps., Sudbury Dist. Summary of field work, 1979 by B. Dressler	MP90		76-78

TELFER

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Thomson, J. E.	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	GR1	
ODM-GSC	1965	Aeromagnetic Map, Sudbury	7067G	1"=4 mi.
ODM-GSC	1965	Aeromagnetic Map, Milnet	1512G	1"=1 mi.
Meyn, H. D.	1966	Capreol Sheet	ODM Map P. 367	1"=2 mi.
Boissonneau, A. N.	1968	Glacial History of Northwestern Ontario II. The Timiskaming Algoma Area	CJES Vol. 5, No. 1	pp. 97-109
Hadley, D. G.	1968	The Sedimentology of the Huronian Formation, Ontario and Quebec, Canada Ph. D., John Hopkins University	Sudbury Thesis File	
Lindsey, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario	GSA Bull., Vol. 80, No. 9	pp. 1685-1702

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Roscoe, S. M.	1969	Huronian Rocks and Uraniferous Conglomerates	GSC Paper 68-40	
Card, K. D., Lumbers, S. B.	1975	Sudbury-Cobalt Geological Compilation Map	OGS Map 2361	1"=4 mi.
OGS-GSC	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey	Map P. 1610	1: 250, 000
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	OGS Map P. 1512	1: 250, 000
Dressler, B. O., Cass, J., Kerr, C.	1980	Chiniguchi Lake Area, Telfer Township	OGS Map P. 2348	1"=1/4 mi.
Dressler, B. O.	1981	Geology of the Chiniguchi Lake Area, Demorest, McConnell and Telfer Tps.	OFR 5347	
Dressler, B. O.	1981	Otter Lake, Sudbury District	OGS Map 2450	1"=1/2 mi.

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Sudbury-Onaping Lake Area	OGS Map P. 2482	1: 100,000
Young, G. M.	1981	The Early Proterozoic Gowganda Formation, Ontario, Canada. Earth's Pre-Pleistocene Record	Cambridge University Press	pp. 807-812
Adlington, R.	1982	Telfer Township, Sudbury Data Series	OGS Map P. 2187	1"=1/4 mi.
Dressler, B. O.	1982	Geology of the Wanapitei Lake Area	OGS Report 213, Map 2450	1"=1/2 mi.
Dressler, B. O.	1986	Geology of the Chiniguchi Lake Area	OGS Report 242, Map 2468	1"=1/2 mi.

Note #	NOTES
1	CANADIAN OCCIDENTAL PETROLEUM In 1979, Canadian Nickel Company Ltd. in a joint venture partnership with three other companies commenced an exploration program for uranium and gold mineralization at or near the base of the Huronian sequence in an area north of Lake Wanapitei. Reconnaissance geology and geophysics were done prior to drilling three deep boreholes in the program area. One borehole was collared in north-central Telfer Tp. Other geophysical surveys such as radiometric, electromagnetic resistivity and spectrometric were performed on the drill core and on the property. (Clary 0011) In 1981, Canadian Occidental Petroleum Ltd. along with three other exploration companies had a combined airborne magnetometer and VLF electromagnetometer survey flown over their group(s) of claims. The survey covered groups of claims in four adjoining townships. The same work is compiled in files Aylmer 0013-A1, Mackelcan 0016, Mackelcan 0015, Mackelcan 0012 and McConnell 0011.

ADDENDA

ADDENDA

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

Resident Geologist's Office
Ministry of Northern Development & Mines
200 Brady Street, 6th Floor
Sudbury, Ontario
P3A 5W2

(705) 675-4441

TELFER

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

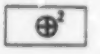
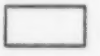
- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ■ File covers whole township or area
- ☐

B. EXPLORATION DATA MAP

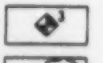
MINERAL OCCURRENCES: **See pages 3-1,2... of text**

- ☐ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐ Mineral occurrence encountered in drilling, with reference letter
- ☐

DRILLHOLES: **See pages 5-1,2... of text**

- ■ Location of single drillhole, with reference number
- ☐ Location of group of closely spaced drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐  Reverse circulation drillhole; churn drilling, with reference number
- ☐ 

GEOCHEMICAL: **See pages 7-1,2...of text**

- ☐  Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

Airborne Surveys: **See pages 6-1,2... of text**

- ■ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ■ Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- ☐ Airborne radiometric anomaly

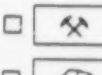
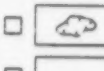
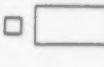
Ground Surveys

- ☐ Ground magnetic anomaly
- ☐ Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq., Turam, JEM - Crone Em - 16)
- ☐ Ground radiometric anomaly
- ☐ Induced polarization anomaly
- ☐ Self potential anomaly
- ☐ Audio-frequency magnetic anomaly (total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly
- ☐

GEOCHRONOLOGICAL DATA: **See page 8 of text**

- ☐ Age dating material sampling site, with reference number
- ☐

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Adit
- ☐ Sand and/or gravel pit
- ☐
- ☐  Rock quarry
- ☐  Open pit
- ☐ 

MAPS
NOT
FILMED

CARTES
OMISES